




# **CCT460: ADVANCED WEB DESIGN**

Blocks, themes & layout

File system	writable ( <a href="#">public download method</a> )
GD library PNG support	bundled (2.0.34 compatible)
GD library rotate and desaturate effects	bundled (2.0.34 compatible)
 Module and theme update status <a href="#">Out of date</a> There are updates available for one or more of your modules or themes. To ensure the proper functioning of your site, you should update as soon as possible. See the <a href="#">available updates</a> page for more information and to install your missing updates.	
Node Access Permissions	Disabled
If the site is experiencing problems with permissions to content, you may have to rebuild the permissions cache. Rebuilding will remove all privileges to content and replace them with permissions based on the current modules and settings. Rebuilding may take some time if there is a lot of content or complex permission settings. After rebuilding has completed, content will automatically use the new permissions. <a href="#">Rebuild permissions</a>	

## Anatomy of an update:

1. download new modules
2. Backup entire site from FTP (best practice)
3. Backup your database
4. Navigate to [yoursite.com/update.php](#) – follow instructions

## Material to be covered

### 1.Blocks

### 2. Themes

### 3. Firebug & Selector Gadget crash course

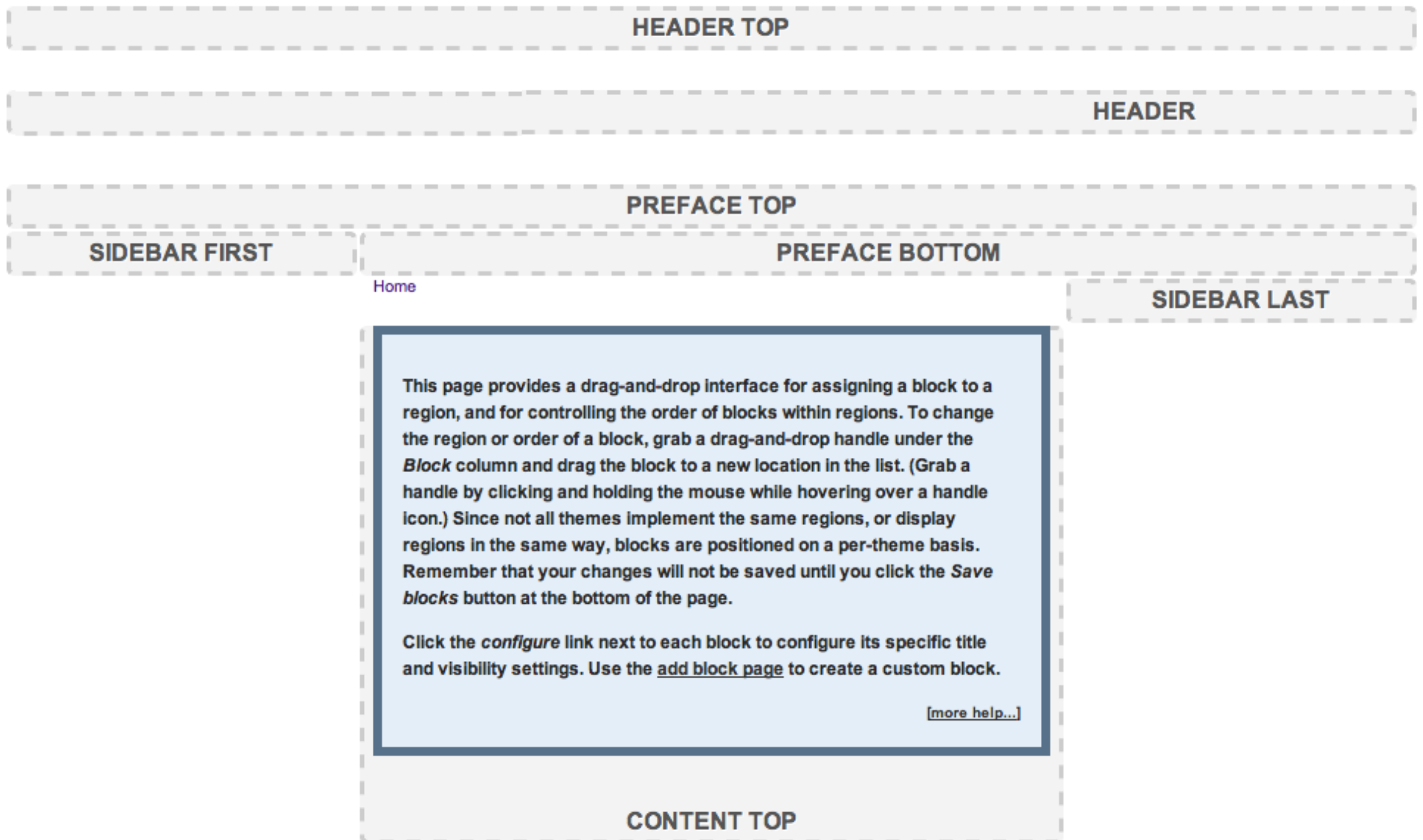
### 4. Exercise – set up and serve Google or Typekit fonts

### 5. Exercise – CSS Refresher

### 6. Optional exercise(s)

# Blocks

- Dumb containers, can contain rudimentary content and admin elements. (e.g. menus, HTML, taxonomy)
- often secondary or tertiary content, but some themes feature multiple content blocks that lend themselves to being populated with blocks
- Widgets are to WordPress = blocks within Drupal.
- views are an easy way to generate blocks (e.g. most popular posts, random content of type x from archive, recent comments, new users, etc.)
- what you use when you don't need a full page for content



admin/build/block

very important for layout/design -quarterback blocks from here

## Zen

[View](#) [Version control](#)

Posted by [JohnAlbin](#) on *October 11, 2006 at 12:24am*

Zen is the ultimate *starting theme* for Drupal. If you are building your own standards-compliant theme, you will find it much easier to start with Zen than to start with Garland or Bluemarine. This theme has [fantastic online documentation](#) and tons of code comments for both the PHP (template.php) and HTML (page.tpl.php, node.tpl.php).



- “ This theme saved me at 2am. Three hours of messing with 1000+ lines of nasty Garland-adapted code later, I abandoned it and recoded the site as a Zen sub-theme in under an hour. Thank you, thank you, thank you.  
– Greg
- “ The theme “Zen” turned out to be the public favorite and won the “Best Drupal Theme” title.  
– Award announcement for the Drupal Hall of Fame Award by [Packt Publishing](#)

## RESPONSIVE & MOBILE FIRST



DISCOVER OMEGA  
[himer.us/omega960](#)

Omega is a **responsive, mobile-first** base theme leading the way in **Drupal** theming that supports **HTML5**, **CSS3** and mobile, fluid, 720, 960 and 1200px (and custom) grids out of the box, giving you full control over your layout, advanced region placement and controls, and contextual layouts provided by the [Delta](#) and [Context](#) modules.

Want to help current & future Omega development? [Send a few bucks our way!](#)

### DRUPAL 7

Drupal is **the** most powerful, flexible, extendible content management framework available today. Powering sites like [whitehouse.gov](#) doesn't happen with Wordpress, my friends...



### RESPONSIVE GRIDS

Our grid structure is based on the [960.gs](#), an amazing example of doing it **right**, and not reinventing the wheel with layout CSS. With mobile & 4 responsive grids out of the box, what more could you need?!



### OMEGA THEME

The standout Drupal 7 **theme**, based on responsive grids, and mobile-first thinking, Omega is the last base theme you'll ever need to take for a test drive. We didn't just build it, we swear by it!



## Genesis

[View](#) [Version control](#)

Posted by [Jeff Burnz](#) on *October 19, 2008 at 3:27pm*

Genesis is an standards compliant, accessible and semantically rich starter theme for Drupal. Genesis is designed to be simple, yet powerful, flexible and easy to get started with.

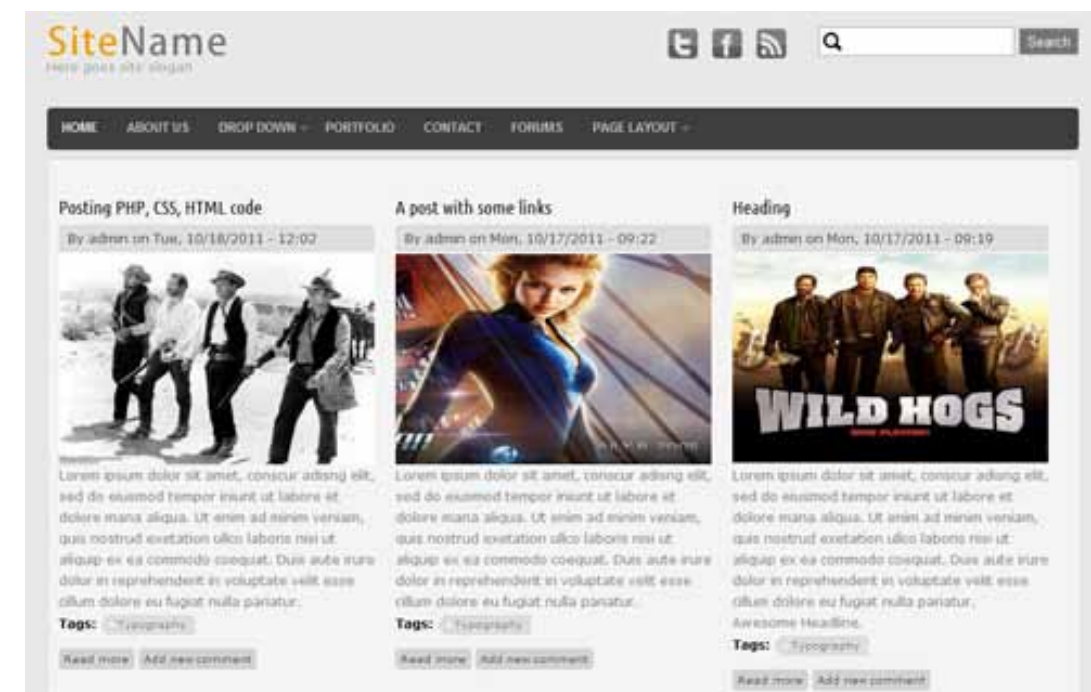


**New! The 7.x-2.x branch is HTML5 and ready for testing now.**

Genesis is easy to theme yet extremely flexible, giving you endless theming possibilities. Genesis makes building a standards compliant accessible theme easier than starting from scratch.

### Key Features

- Standards compliant
- Modular CSS
- [Flexible layout options](#)
- [Built in support for theming site sections](#)
- [Gpanels](#) – multi-column, fluid grid micro-panels
- Content source ordered for SEO
- No complex logic in templates
- Advanced dynamic CSS classes
- Conditional Styles module included



# admin/build/block

# very important for layout/design -quarterback blocks from here



The screenshot shows a web browser window with two tabs: 'cct460-w11 - home' and '460.dev4.webenabled.net | Thi...'. The main content area displays a large image of a rocky coastline at sunset. Below the image is a section titled 'Morbi egestas pulvinar cursus' with a subtitle 'Submitted by admin on Thu, 01/13/2011 - 20:26'. The text of the post is a Lorem Ipsum placeholder. To the right of the text is a sidebar with a section titled 'Example' containing the text 'I am the very picture of a modern man in general.' Below the browser window, the Chrome DevTools interface is visible. The 'HTML' tab shows the DOM tree with the following structure:

```
<div style="clear: both;"></div>
<div id="slideshow-wrapper">
  <div style="clear: both;"></div>
  <div id="wrapper">
    <div id="content">
      <div id="sidebar-right" class="sidebar">
        <div id="block-block-1" class="block">
          <div class="block-inner">
            <h2 class="block-title">Example</h2>
            <div class="block-content">
              <div class="block-content-inner">
                <p>I am the very picture of a modern man in general.</p>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
<div style="clear: both;"></div>
</div>
```

The 'Style' tab shows the computed styles for the selected element, including a box model diagram with the following values:

- margin: 12
- border: 0
- padding: 0
- width: 215 x 40
- position: static
- z: auto

## CSS and blocks

-all custom regions have unique CSS classes

```

< style="clear: both;"> </div>
< id="slideshow-wrapper">
< style="clear: both;"> </div>
< id="wrapper">
<div id="content">
<div id="sidebar-right" class="sidebar">
  <div id="block-block-1" class="block ">
    <div class="block-inner">
      <h2 class="block-title">Example </h2>
      <div class="block-content">
        <div class="block-content-inner">
          <p>I am the very picture of a modern man in general.</p>
        </div>
      </div>
    </div>
  </div>
</div>
</div>
</div>

```



#sidebar-right (whole sidebar)

#block-block-1 (whole block that we've created)

#block-block-1 .block-inner

#block-block-1 .block-title

#block-block-1 .block-inner p



We could just as easily set rules for 'all right sidebar'

#sidebar-right .block-inner  
#sidebar-right .block-title  
etc.

or 'all blocks'

.block-title  
.block-inner  
  
etc.

Remember CSS is as specific or broad as you tell it to be.

...but usually you'll want different rules from region to region

## **Exercise #1 (10-15 min)**

- set Touch to be the primary theme for your site**
- Make a few dummy blocks via admin/build/block**
- experiment with moving them from region to region**
- note what occurs when you plug them into regions that are horizontally and vertically adjacent**






















1.Blocks

2. Themes

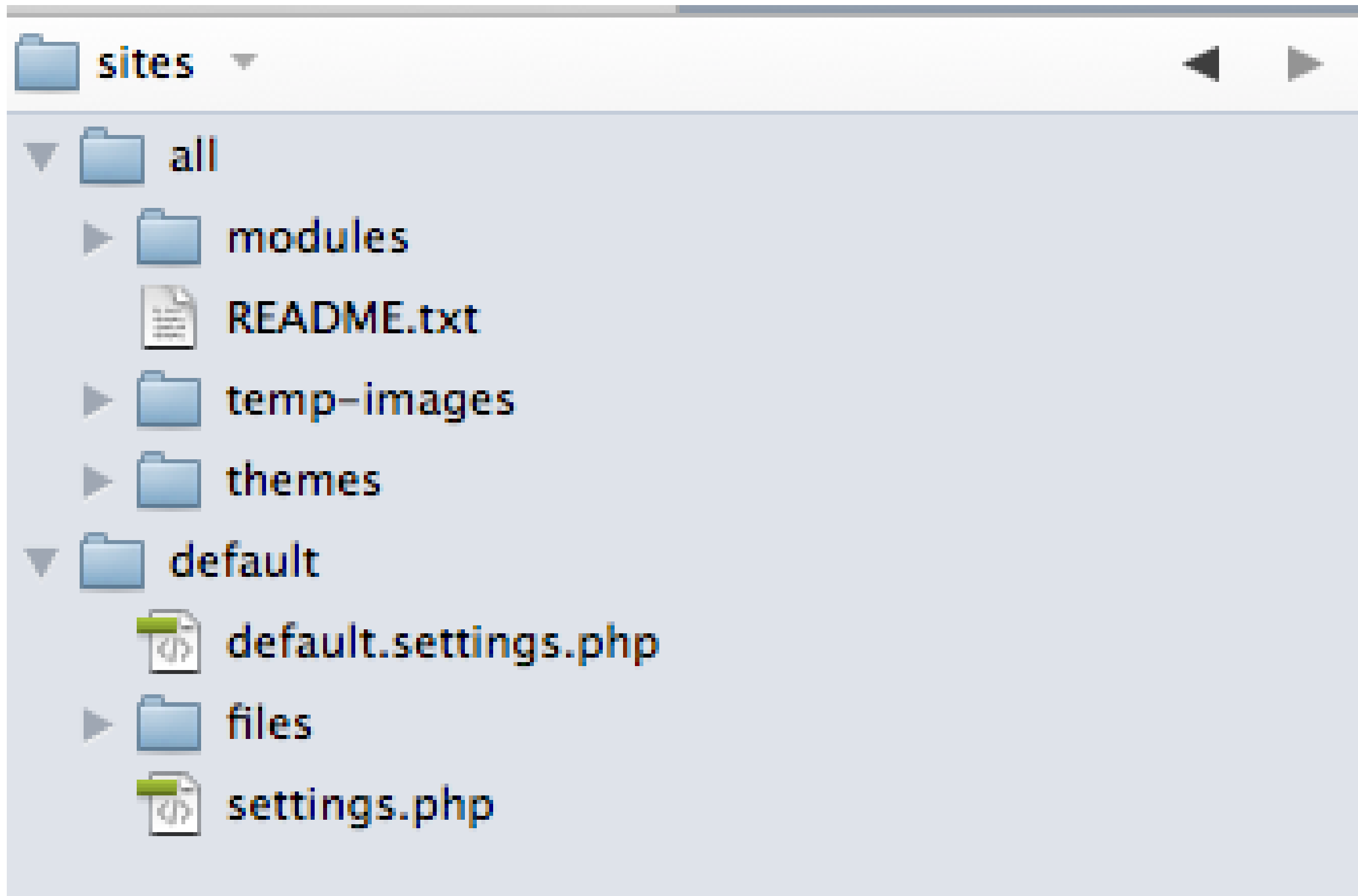
3. Firebug & Selector Gadget crash course

4. Exercise – CSS Refresher

5. Optional exercise(s)

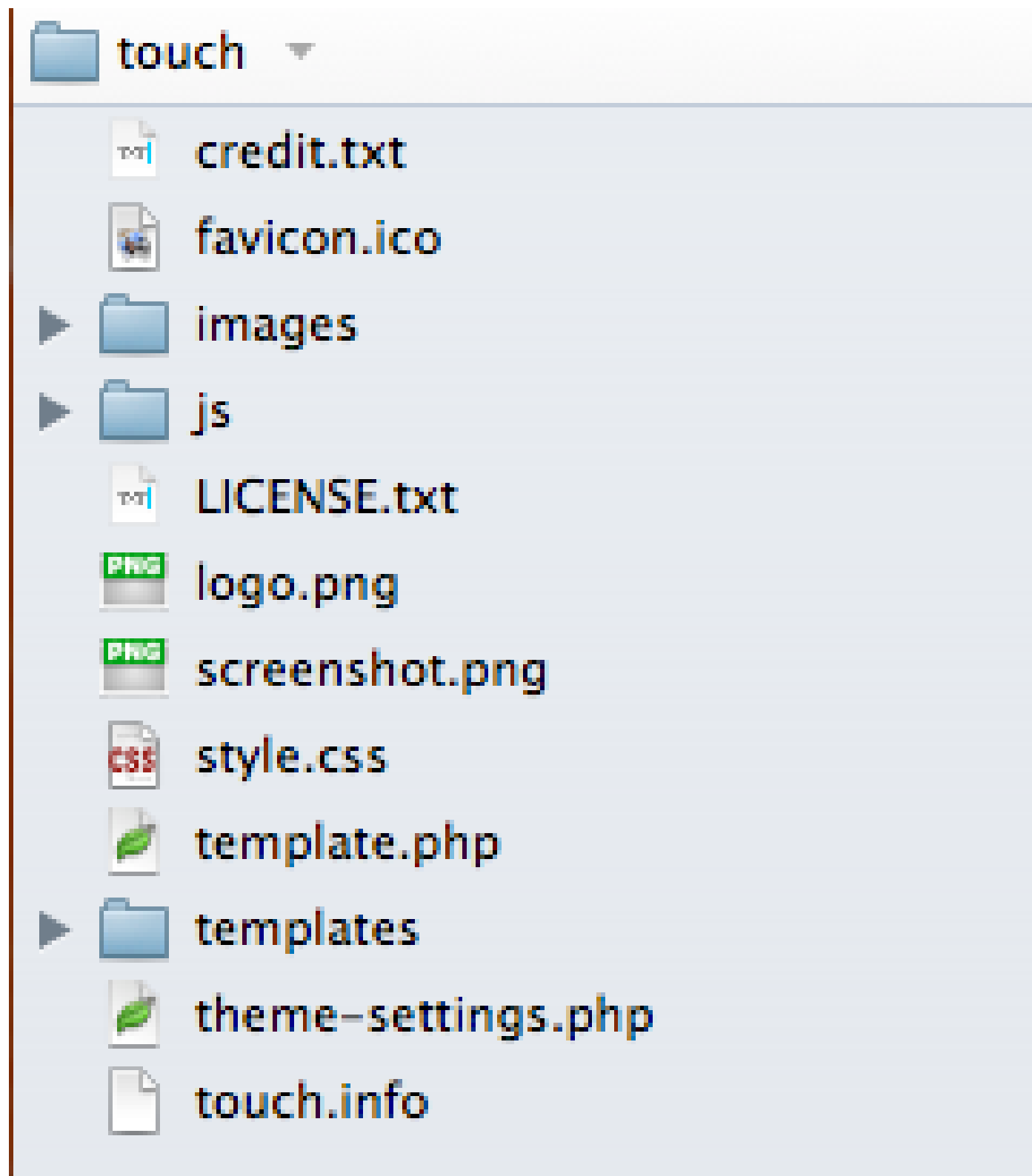
 CHANGELOG.txt	2010-12-15 4:11 PM	45 KB	Plain Text
 COPYRIGHT.txt	2010-08-06 6:58 AM	4 KB	Plain Text
 cron.php	2006-08-09 3:42 AM	4 KB	PHP: ...cument
▶  includes	2010-12-15 4:16 PM	--	Folder
 index.php	2007-12-26 3:46 AM	4 KB	PHP: ...cument
 INSTALL.mysql.txt	2007-11-19 2:53 PM	4 KB	Plain Text
 INSTALL.pgsql.txt	2007-11-26 11:36 AM	4 KB	Plain Text
 install.php	2010-12-06 1:50 AM	49 KB	PHP: ...cument
 INSTALL.txt	2010-12-06 1:50 AM	16 KB	Plain Text
 LICENSE.txt	2009-01-06 12:27 PM	20 KB	Plain Text
 MAINTAINERS.txt	2009-04-29 1:15 PM	4 KB	Plain Text
▶  misc	2010-12-15 4:16 PM	--	Folder
▶  modules	2010-12-15 4:16 PM	--	Folder
▶  profiles	2010-12-15 4:16 PM	--	Folder
 robots.txt	2010-09-06 6:37 AM	4 KB	Plain Text
▶  scripts	2010-12-15 4:16 PM	--	Folder
▶  sites	2010-12-15 4:16 PM	--	Folder
▶  themes	2010-12-15 4:16 PM	--	Folder
 update.php	2010-11-03 8:29 AM	29 KB	PHP: ...cument
 UPGRADE.txt	2010-05-11 5:39 AM	8 KB	Plain Text
 xmlrpc.php	2005-12-10 2:26 PM	4 KB	PHP: ...cument

**Core - Drupal in the most rudimentary sense  
(the bare platform)**



sites/all/themes folder

Content for your site goes here – **Not in root**



investigate:

page-front.tpl.php

page.tpl.php

template.php

(in templates)

siteas/all/themes/touch  
anatomy of a theme



# Theme Vocab

**2 column:** main content area/sidebar

**3 column:** sidebar/content/sidebar, sidebar/sidebar/content etc.

**960 Grid System:** 16 or 12 column 960 column grid. Neat & divisible.

**Blocks:** 'chunk' of content (i.e. linkroll)

**Clean:** see minimal

**Content:** Custom publishing workflows

**Fixed-width:** Static width - Often (but not always) best for designers

**Fluid:** Certain regions can expand. Requires careful calibration.

**Image Gallery:** Some themes are savvy with media.

**Lightweight:** Not much code, something that is built up. Developer-y.

**Minimal:** see clean

**Menus:** Navigation

**Multi-language Support:** Built to accomodate content multiples.

**Panels:** Module to be investigated later

**Region:** Area within a theme page template (page.tpl) e.g. header, right sidebar

**Skinr:** Modular CSS tool. Like c5 'styles' but less annoying

**Standards Compliant:** Accessible. W3C Validation, etc.

# Themes

Clean – <http://drupal.org/project/clean>

960 Grid – <http://drupal.org/project/ninesixty>

Fusion (skinr) – <http://drupal.org/project/fusion> / <http://vimeo.com/7670241>

Framework – <http://drupal.org/project/framework>

Genesis – <http://drupal.org/project/genesis>

Zen – <http://drupal.org/project/zen>

see also:

AdaptiveTheme – <http://drupal.org/project/adaptivetheme>

mobile garland – [http://drupal.org/project/mobile\\_garland](http://drupal.org/project/mobile_garland)

Zen nineSixty – [http://drupal.org/project/zen\\_ninesixty](http://drupal.org/project/zen_ninesixty)

We'll focus on mobile-centric themes later in the semester...

1.Blocks

2. Themes

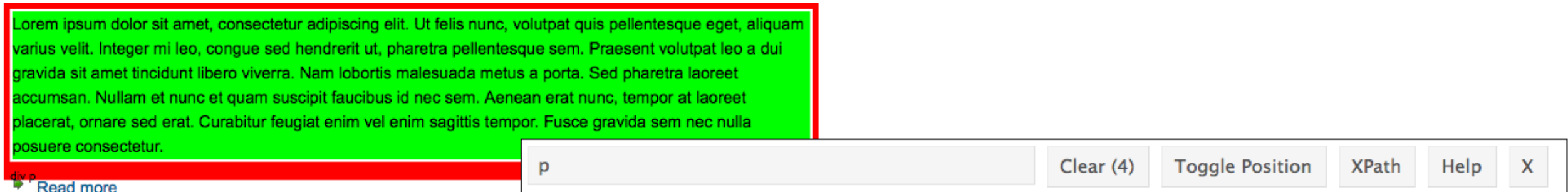
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4. Exercise – CSS Refresher

5. Optional exercise(s)



**Firebug – greatest tool on earth for web developers**  
**<http://getfirebug.com>**



**Selector Gadget – (2nd) greatest tool on earth for web developers**  
**<http://www.selectorgadget.com>**

- 1.Blocks
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1. Blocks
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## Exercise (30-45 min)

1. Using the mock 'story' node, dummy blocks and type work that you've done and your progress from the various exercise...
2. Try working with various background classes (e.g. p, node-inner, block-inner, h2, body) to change the overall colour scheme of the Touch theme
3. Building on your mid-progress work with the Google fonts, try to 'reskin' the landing page of your theme. This task might seem banal but applying an learning to apply an 'even hand' is a skill you will work on honing all semester.

## Optional Exercises

1. If you find the first two exercises to be simplistic. Try adding a few menu items to the primary links (/admin/build/menu) and restyling the nav menu
2. Start messing around with content types – try making some and look for related modules.
3. See the exercise on the next slide for a more advanced experiment with a module.

## **Exercise (30 min)**

**(Intentionally undocumented to test your sleuthing/troubleshooting skills)**

- 1. Create 2-5 'story' nodes with filler content and as many blocks – assign the blocks to page regions via admin/build/block**
- 2. Download and install the @font-your-face module (be sure to activate the Google Font API)**
- 3. Go to appearance >> @font-your-face and you can start applying specific fonts to various CSS classes**

**Experiment with changing up the typefaces applied on your landing page within the Touch theme.**